

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A method of plasmon body treatments comprising steps of:  
providing a nanoparticle capable of a plasmon body treatment when the nanoparticle is  
embedded to a body; embedding the nanoparticle into the body; exciting the nanoparticle  
by a plasmon source; and allowing the plasmon excited nanoparticle to interact with the  
body.

~~A method of plasmon enhanced body treatment or bacterial management comprising: providing a composition capable of changing a property of a biological substance, the composition comprising a plasmon source and a plasmon excited nanoparticle; and allowing an object containing the biological substance to interact with the composition.~~

2. (Currently amended) ~~The method of claim 1, wherein the biological substance is selected from a group consisting of: biomolecule, tissue, skin, cells, body organs, bacteria, virus, pathogen, biochemical warfare agent, body is a human body or animal body.~~
3. (Currently amended) An antibacterial composition comprising of: a nanoparticle, the nanoparticle is capable of killing bacteria/viruses when the nanoparticle is plasmon excited and there is within 30 micrometers from bacteria/viruses; and a plasmon energy.

~~The method of claim 1, wherein the composition is further provided with a chemical agent and the chemical agent is selected from the group of: an inorganic molecule, organic molecule, mixture of inorganic and organic molecules or drug.~~

4. (Currently amended) The antibacterial composition of Claim 3, wherein the nanoparticle is a metal nanoparticle or a metallic salt nanoparticle.

~~The method of claim 3, wherein the chemical agent is hydrogen peroxide.~~

5. (Previously presented) The method of claim 1, wherein the nanoparticle is a metal, metallic salt, electric conductor, electric superconductor or electric semiconductor.
6. (Previously presented) The method of claim 5, wherein the metal is selected from a group consisting of silver, ruthenium, platinum, rhenium, rhodium, osmium, iridium, copper, zinc, nickel, chromium magnesium, iron, palladium, gold, titanium, titanium dioxide, silver nitrate, alkaline earth metal, gold, copper, silver oxide or silver ion.
7. (Previously presented) The method of claim 1, wherein the nanoparticle is uncoated or coated with a material selected from the group of: biorecognitive, bioactive, dielectric, chemorecognitive, chemical active, polymer, environmentally sensitive polymer or polymer containing drug.
8. Canceled
9. (Previously presented) The method of claim 1, wherein the nanoparticle size is in a range of 0.1 nm to 200,000 nm in at least one of the dimensions.
10. (Previously presented) The method of claim 1, wherein the nanoparticles is a thin film, colloid, fiber, metal island or nanowire.
- 11-15. Canceled
16. (Currently amended) The method of claim 1, wherein the body treatment is used in a ~~joints treatment, tissue treatment, cosmetic treatment, cosmetic prevention, rejuvenating treatment, therapy treatment, bacterial disease treatment, antibacterial treatment, virus treatment, cancer treatment, biostimulation treatment, antiodor treatment, sun prevention treatment, sunburn treatment, skin burn treatment, wound treatment~~ or antiinflammation treatment.

17. (Currently amended) The method of claim 1 is performed at a specific location in the ~~object~~ body, where said the nanoparticle remains in the location for the ~~object~~ body treatment.
18. (Currently amended) The method of claim 1, wherein the ~~surface plasmon resonance enhanced~~ body treatment ~~and bacterial management~~ is additionally enhanced by radiation from the plasmon source, ~~the nearby presence of electromagnetic radiation, the chemical agent, electromagnetic radiation and the chemical agent.~~
19. (Currently amended) The antibacterial composition of Claim 3, wherein the plasmon energy is a single type of energy or a plurality of energies selected from the group of energies: electromagnetic, sonic, electric, magnetic or ionized radiation.
- ~~The method of claim 1 is applied in an air conditioning and heating system, air humidity control system, air ventilation system, disinfectant product, antiseptic product, water supply line, water container, septic tank, bathtub, whirlpool, Jacuzzi, swimming pool, dental waterlines, food technology, animal food technology, household cleaning product, kitchen product, product for pets, cosmetic product, hygiene product, medical bio-safety product, hair product, laundry product, textile material, pharmaceutical product for human, pharmaceutical product for animal, health supplement product, drinking water product, beverage product, paint product, biodefense product, furniture preserving product, art preserving product, sunburn protection product or sun-tanning technology.~~
20. (Currently amended) The method of claim 1, wherein the plasmon source is a single energy source or a plurality of energy sources selected from the group of energy sources: electromagnetic, sonic, electric, magnetic or ionized radiation.

Listing of Claims:

1. A method of plasmon body treatments comprising steps of: providing a nanoparticle capable of a plasmon body treatment when the nanoparticle is embedded to a body; embedding the nanoparticle into the body; exciting the nanoparticle by a plasmon source; and allowing the plasmon excited nanoparticle to interact with the body.
2. The method of claim 1, wherein the body is a human body or animal body.
3. An antibacterial composition comprising of: a nanoparticle, the nanoparticle is capable of killing bacteria/viruses when the nanoparticle is plasmon excited and there is within 30 micrometers from bacteria/viruses; and a plasmon energy.
4. The antibacterial composition of Claim 3, wherein the nanoparticle is a metal nanoparticle or a metallic salt nanoparticle.
5. The method of claim 1, wherein the nanoparticle is a metal, metallic salt, electric conductor, electric superconductor or electric semiconductor.
6. The method of claim 5, wherein the metal is selected from a group consisting of silver, ruthenium, platinum, rhenium, rhodium, osmium, iridium, copper, zinc, nickel, chromium magnesium, iron, palladium, gold, titanium, titanium dioxide, silver nitrate, alkaline earth metal, gold, copper, silver oxide or silver ion.
7. The method of claim 1, wherein the nanoparticle is uncoated or coated with a material selected from the group of: biorecognitive, bioactive, dielectric, chemorecognitive, chemical active, polymer, environmentally sensitive polymer or polymer containing drug.
8. Canceled
9. The method of claim 1, wherein the nanoparticle size is in a range of 0.1 nm to 200,000 nm in at least one of the dimensions.

10. The method of claim 1, wherein the nanoparticles is a thin film, colloid, fiber, metal island or nanowire.

11.-15. Canceled

16. The method of claim 1, wherein the body treatment is a cosmetic treatment, therapy treatment, or antiinflammation treatment.

17. The method of claim 1 is performed at a specific location in the body, where the nanoparticle remains in the location for the body treatment.

18. The method of claim 1, wherein the body treatment is additionally enhanced by radiation from the plasmon source.

19. The antibacterial composition of Claim 3, wherein the plasmon energy is a single type of energy or a plurality of energies selected from the group of energies: electromagnetic, sonic, electric, magnetic or ionized radiation.

20. The method of claim 1, wherein the plasmon source is a single energy source or a plurality of energy sources selected from the group of energy sources: electromagnetic, sonic, electric, magnetic or ionized radiation.